

CLAIMS

What is claimed is:

- 1           1.       A multimode backlight for a display comprising:  
2                   at least one first illumination source comprising a first mode;  
3                   an NVIS filter adjacent to said at least one first illumination source;  
4                   at least one second illumination source comprising a second  
5       mode; and  
6                   a filter means adjacent to said at least one second illumination source  
7       for suppressing an excitation of said at least one second illumination source caused  
8       by said at least one first illumination source.
  
- 1           2.       The invention of claim 1 further comprising apertures for limiting an  
2       exposure to said NVIS filter from illumination from said at least one second  
3       illumination source.
  
- 1           3.       The invention of claim 2 wherein the apertures comprise different  
2       sized apertures for a uniform distribution of a light from the at least one first  
3       illumination source.
  
- 1           4.       The invention of claim 1 wherein said at least one first illumination  
2       source comprises at least one light emitting diode comprising a first color and said at  
3       least one second illumination source comprise at least one light emitting diode  
4       comprising a second color.
  
- 1           5.       The invention of claim 1 wherein said filter means comprises a filter  
2       for attenuating a first predetermined wavelength and for transmitting a second  
3       predetermined wavelength.

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1           6.     The invention of claim 5 wherein said filter means for attenuating a  
2     first predetermined wavelength comprises attenuating phosphorescent light emitted  
3     by the at least one second illumination source.

1           7.     The invention of claims 1 wherein said filter means comprises a hot  
2     mirror.

1           8.     The invention of claim 1 wherein said filter means comprises a notch  
2     filter.

1           9.     The invention of claim 1 further comprising at least one third  
2     illumination source comprising a third mode.

1           10.    The invention of claim 9 wherein said at least one third illumination  
2     source further comprises a second NVIS filter adjacent to said at least one third  
3     illumination source.

1           11.    The invention of claim 9 wherein said at least one third illumination  
2     source further comprises a filter means adjacent to said at least one third  
3     illumination source for suppressing an excitation of said at least one third  
4     illumination source caused by said first and said second illumination source.

1           12.    A method of multimode backlighting of a display, the method  
2     comprising the steps of:  
3               a)     filtering a first illumination source comprising a first mode  
4     with a NVIS filter; and  
5               b)     suppressing an excitation of a second illumination source  
6     comprising a second mode caused by said first illumination source with a filter.

1           13.    The method of claim 12 further comprising the step of limiting an  
2     exposure to the NVIS filter from illumination from the second illumination source  
3     with limiting apertures.

1           14.    The method of claim 12 wherein the step of suppressing comprises  
2    attenuating a first predetermined wavelength and for transmitting a second  
3    predetermined wavelength.

1           15.    The method of claim 14 wherein the step of attenuating a first  
2    predetermined wavelength comprises attenuating phosphorescent light emitted by  
3    the at least one second illumination source.

1           16.    The method of claim 12 further comprising the step of filtering a  
2    third illumination source comprising a third mode with a second NVIS filter.

1           17.    The method of claim 12 further comprising the step of suppressing an  
2    excitation of a third illumination source comprising a third mode caused by said  
3    first and said second illumination source.